

## ABSTRACT

There is provided a device and method for retransmitting error-detected data in a mobile communication system. A transmitter generates  $S$  sub-codes  $C_i$  (5  $i = 0, 1, 2, \dots, S-1$ ) from a physical layer packet (PLP) information stream using quasi-complementary turbo codes, initially transmits the first sub-code  $C_0$ , and then sequentially transmits the following sub-codes each time a retransmission request is received for the initial transmission or a previous retransmission. Upon receipt of a retransmission request for the last sub-code 10  $C_{S-1}$ , the transmitter transmits the first sub-code  $C_0$  and then sequentially transmits the following sub-codes each time a retransmission request is received.